California Environmental Protection Agency AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0174 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR			FUEL TYPE	USEFUL LIFE (hours)		
2004	4JDXL06.8048	4.5, 6.8	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Smoke Puff Limiter, Engine Modification, Electronic Control Module, Turbocharger, Charge Air Cooler			Pump, Compressor, Generator S	et, Industrial Equipment		

The engine models and codes are attached.

The following are the exhaust certification standards (STD), and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr); and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION STANDARD		EXHAUST (g/kW-hr)				OPACITY (%)			
CLASS	CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
75 <u>≤</u> kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT	-	-	6.0	1.4	0.16	10	2	22

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 2320 day of December 2003.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form

Deere Power Systems Group of Deere and Manufacturer: Engine category: Nonroad Ct EPA Engine Family: 4JDXL06.8048 Mfr Family Name: 350HG ocess Code: New Submission

Attachment 1-56 1 U-R-004-0174

1.Engine Code	2.Engine Model		4,Fuel Rate: mπ∕stroke & peak HP (for dieset only)	5.Fuel Rate: (lbs/hr)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate; (lbs∕hr)€peak torque	9.Emission Control Device Par SAE J1930
SOUDOHE 475A	6068H	173.00@2100	83.70@2100 😂	**59.26@2100*	2-629.61@1400	120.35@1400	2:56.82@1400	EM EC S OF
4045HL475A	~4045H\$3-	12.65@2300	79.90@2300 🔆	41.34@2300	346.61@1500			EM EC 0
6068HRW6TA		119.36@2300	57.80@2300 -	/ 44.85@2300 🏷	365. 79@ 1500		36.58@1500	
6068HRW61B	and the state of t	29.41 @ 2300		47.95@2300	397.50@1500	78.4@1500	100 B 100	EMECI
6068HRW62A	6068H	139,47,02100	۩ 68.60@2100 ye	48.62@2100 -	469.03@1400	· · · · · · · · · · · · · · · · · · ·	43.04@1400	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
6068HRW628						and the second secon	the second s	
7 4045HL476		03.26@2300'			318.59@1500	94.4 @ 1500	31 82 0 1500	
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